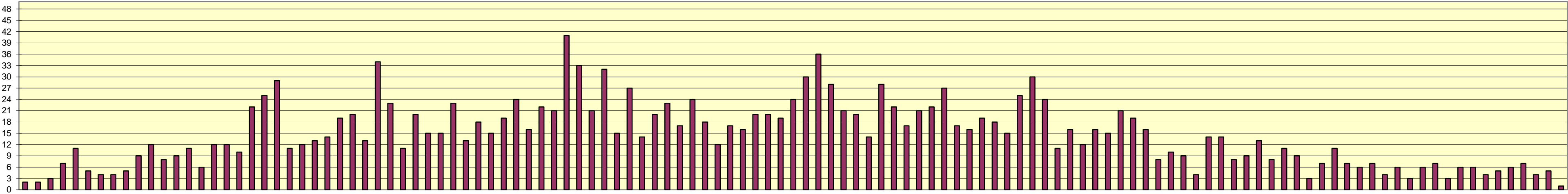


Seasonal Fire Activity Timelines for PSA NW02 - Large Fire = 100+ acres

2004-2011



Date	Fires		Large fires	
6/15	2	2	3	7
6/16	2	3	7	11
6/17	3	7	11	5
6/18	7	11	5	4
6/19	11	5	4	5
6/20	5	4	5	9
6/21	4	5	9	12
6/22	4	5	9	12
6/23	5	9	12	8
6/24	9	12	8	9
6/25	12	8	9	11
6/26	8	9	11	12
6/27	11	12	13	14
6/28	9	11	12	13
6/29	6	12	13	14
6/30	12	13	14	19
7/1	12	13	14	20
7/2	10	14	19	20
7/3	22	20	13	34
7/4	25	20	13	23
7/5	29	20	13	11
7/6	11	20	13	23
7/7	12	20	13	17
7/8	13	20	13	15
7/9	14	20	13	23
7/10	19	20	13	15
7/11	20	20	13	15
7/12	13	20	13	23
7/13	34	20	13	18
7/14	23	20	13	15
7/15	11	20	13	15
7/16	20	20	13	15
7/17	15	20	13	15
7/18	15	20	13	15
7/19	23	20	13	15
7/20	13	20	13	15
7/21	18	20	13	15
7/22	15	20	13	15
7/23	19	20	13	15
7/24	24	20	13	15
7/25	16	20	13	15
7/26	22	20	13	15
7/27	22	20	13	15
7/28	21	20	13	15
7/29	33	20	13	15
7/30	21	20	13	15
7/31	32	20	13	15
8/1	15	20	13	15
8/2	27	20	13	15
8/3	14	20	13	15
8/4	20	20	13	15
8/5	23	20	13	15
8/6	17	20	13	15
8/7	24	20	13	15
8/8	18	20	13	15
8/9	12	20	13	15
8/10	17	20	13	15
8/11	16	20	13	15
8/12	20	20	13	15
8/13	19	20	13	15
8/14	19	20	13	15
8/15	24	20	13	15
8/16	30	20	13	15
8/17	36	20	13	15
8/18	28	20	13	15
8/19	21	20	13	15
8/20	20	20	13	15
8/21	14	20	13	15
8/22	28	20	13	15
8/23	22	20	13	15
8/24	17	20	13	15
8/25	21	20	13	15
8/26	22	20	13	15
8/27	27	20	13	15
8/28	17	20	13	15
8/29	16	20	13	15
8/30	19	20	13	15
8/31	18	20	13	15
9/1	15	20	13	15
9/2	25	20	13	15
9/3	30	20	13	15
9/4	24	20	13	15
9/5	11	20	13	15
9/6	16	20	13	15
9/7	12	20	13	15
9/8	15	20	13	15
9/9	15	20	13	15
9/10	21	20	13	15
9/11	19	20	13	15
9/12	16	20	13	15
9/13	8	20	13	15
9/14	10	20	13	15
9/15	9	20	13	15
9/16	4	20	13	15
9/17	14	20	13	15
9/18	14	20	13	15
9/19	8	20	13	15
9/20	9	20	13	15
9/21	13	20	13	15
9/22	11	20	13	15
9/23	8	20	13	15
9/24	9	20	13	15
9/25	3	20	13	15
9/26	7	20	13	15
9/27	11	20	13	15
9/28	7	20	13	15
9/29	6	20	13	15
9/30	7	20	13	15
10/1	4	20	13	15
10/2	6	20	13	15
10/3	3	20	13	15
10/4	6	20	13	15
10/5	7	20	13	15
10/6	3	20	13	15
10/7	6	20	13	15
10/8	6	20	13	15
10/9	4	20	13	15
10/10	5	20	13	15
10/11	6	20	13	15
10/12	7	20	13	15
10/13	4	20	13	15
10/14	1	20	13	15
10/15	1	20	13	15

Total Fire = 1819
Large Fires = 9

NW02 – Northwest Oregon and Southwest Washington

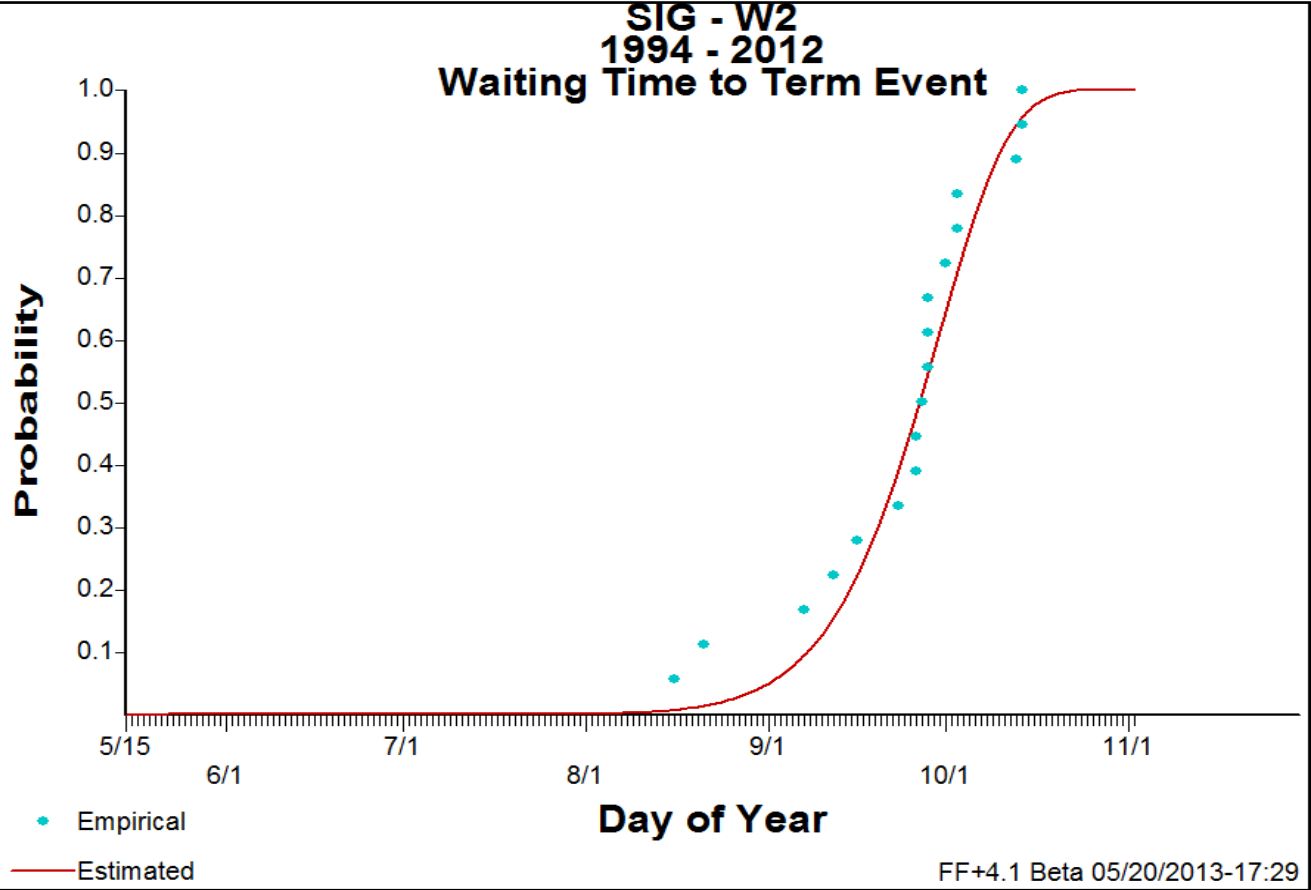
Season ending date estimates for Northwest Washington utilized the Predictive Services 7-day Significant Fire Potential Product. Given that the product determines the probability of a significant fire occurring, based on historical dryness levels and historic fire occurrence, the analysis results assume end of season when the product observed “green” (1% probability of a significant fire event) for three or more consecutive days, and where periods of green were never separated by more than a single yellow and or brown day (2 to 5% probability of a significant event).

Large fire definition per NWCC predictive services for PSA NW02 is 100 acres or more. The earliest large fire occurred July 21, 2006 and the latest large fire occurred September 20, 2007.

A TERM file was generated using FireFamily Plus v. 4.1. The season was set **May 15 to October 15** for the years **1994-2012** using the same rationale as above produced these results:

- 25% of the seasons end on or before September 18
- 50% of the seasons end on or before September 27
- 75% of the seasons end on or before October 6
- 90% of the seasons end on or before October 11
- 99% of the seasons end on or before October 19

FireFamily Plus Term Report			
Station: SIG - W2			
Term Name: NW02			
Season Start Day: 5/15			
Data Years: 1994 - 2012			
Alpha: 12.381113			
Beta: 0.007214			
R-Squared: 0.953041			
Comment:			
Term Dates			
Year	Day	#Days	Comment
1994	9/26	134	
1995	9/23	131	
1996	9/25	134	
1997	8/16	93	
1998	9/16	124	
1999	10/ 3	141	
2000	9/26	135	
2002	9/28	136	
2003	9/28	136	
2004	8/20	98	
2005	9/28	136	
2006	10/14	152	
2007	9/12	120	
2008	10/ 2	141	
2009	10/13	151	
2010	9/ 7	115	
2011	10/ 1	139	
2012	10/13	152	
Key Probabilities			
Probability	Date		
0.25	September 18		
0.50	September 27		
0.75	October 05		
0.90	October 11		
0.99	October 19		
FF+4.1 Beta 05/20/2013-17:29			



PSA NW02 (W2)

This area represents southwest Washington and northwest Oregon. Average PSA fuel moistures are determined by the average of the Key RAWS in the zone.

Key RAWS: Greenwater, Kosmos, Canyon Creek, Log Creek, Abenathy, South Fork, Cedar Creek, Rockhouse 2

Each RAWS receives equal weighting for NFDRS Index calculations. Used to determine DL: ERC for fuel model G “Large Fire Day” = A day with an occurrence of at least one 100+ acre fire

“ERC threshold values used for DL determination Based on June-September data (2000-2011)

DL	ERC Threshold	% of all fire season days	% of all large fire days	Conditional Probability of a large fire
Green (moist)	≤ 19	51%	0%	0%
Yellow (dry)	20 – 43	42%	62%	2%
Brown (very dry)	≥ 44	8%	38%	5%

* Conditional Probability: Assumes at least 1 ignition

Specifics for PSA NW02

Burn Environment – Wind shows virtually no relationship to the occurrence of large fires. ERC and instability are the two key factors especially when a thermal trough pattern sets up. Ongoing fires can become problematic and large fire growth days can be expected.

Lightning from 2004-2011 produced 9 large fires primarily on the Mt.Hood and Gifford Pinchot National Forests.